Title (en)

COMPLEX-TRANSFORM CHANNEL CODING WITH EXTENDED-BAND FREQUENCY CODING

Title (de)

KODIERUNG EINES KOMPLEXÜBERTRAGUNGSKANALS MIT FREQUENZKODIERUNG EINES ERWEITERTEN BANDS

Title (fr)

CODAGE DE CANAL DE TRANSFORMEE COMPLEXE AVEC CODAGE DE FREQUENCE A BANDE ETENDUE

Publication

EP 1974470 A4 20101215 (EN)

Application

EP 07716205 A 20070103

Priority

- US 2007000021 W 20070103
- US 33660606 A 20060120

Abstract (en)

[origin: US2007174062A1] An audio encoder receives multi-channel audio data comprising a group of plural source channels and performs channel extension coding, which comprises encoding a combined channel for the group and determining plural parameters for representing individual source channels of the group as modified versions of the encoded combined channel. The encoder also performs frequency extension coding. The frequency extension coding can comprise, for example, partitioning frequency bands in the multi-channel audio data into a baseband group and an extended band group, and coding audio coefficients in the extended band group based on audio coefficients in the baseband group. The encoder also can perform other kinds of transforms. An audio decoder performs corresponding decoding and/or additional processing tasks, such as a forward complex transform.

IPC 8 full level

G10L 19/00 (2006.01)

CPC (source: EP KR US)

G10L 19/008 (2013.01 - EP KR US); **G10L 21/038** (2013.01 - EP US); **H03M 7/30** (2013.01 - KR)

Citation (search report)

- [X] PURNHAGEN H: "Low complexity parametric stereo coding in mpeg-4", PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DIGITAL AUDIOEFFECTS, XX, XX, 5 October 2004 (2004-10-05), pages 163 - 168, XP002364489
- See references of WO 2007087117A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2007174062 A1 20070726; **US 7831434 B2 20101109**; AU 2007208482 A1 20070802; AU 2007208482 B2 20100916; AU 2010249173 A1 20101223; AU 2010249173 B2 20120823; CA 2637185 A1 20070802; CA 2637185 C 20140325; CN 101371447 A 20090218; CN 101371447 B 20120606; CN 102708868 A 20121003; CN 102708868 B 20160810; EP 1974470 A1 20081001; EP 1974470 A4 20101215; HK 1176455 A1 20130726; JP 2009524108 A 20090625; KR 101143225 B1 20120521; KR 20080093994 A 20081022; RU 2008129802 A 20100127; RU 2011108927 A 20120920; RU 2422987 C2 20110627; RU 2555221 C2 20150710; US 2011035226 A1 20110210; US 9105271 B2 20150811; WO 2007087117 A1 20070802

DOCDB simple family (application)

US 33660606 A 20060120; AU 2007208482 A 20070103; AU 2010249173 A 20101203; CA 2637185 A 20070103; CN 200780002567 A 20070103; CN 201210102938 A 20070103; EP 07716205 A 20070103; HK 13103638 A 20130322; JP 2008551278 A 20070103; KR 20087017475 A 20070103; RU 2008129802 A 20070103; RU 2011108927 A 20070103; US 2007000021 W 20070103; US 90788910 A 20101019